

April 15, 2016

MEMORANDUM FOR: Distribution Email

FROM: Christine Caruso Magee
Configuration Manager, NCEP Central Operations

SUBJECT: Scheduled Operational Changes and Upgrades for
CPC, OPC, and WPC

Climate Prediction Center

The following accelerated items were implemented this past week:

None

The following will be implemented the week of April 18, 2016:

RFC #628 – mpp-driver v1.2 – Refactor the mpp-driver code to make it much easier to deploy releases of the code, including the ability to easily roll back to a previous version. To be implemented on April 18 at 1400Z.

The following RFCs are in progress or have been delayed:

RFC #623 – VWT v2.0 - The Java front-end of CPC's VWT (Verification Web Tool) has been removed. The backend servlet is now called by an AJAX request, and the response is plotted using a Javascript plotting package. This will eliminate all the issues end-users are having with getting the applet to load and run. Was to be implemented on April 11 at 1400Z; additional work needs to be done so this implementation date is now TBD.

The following RFCs were withdrawn:

RFC #605 – Africa_RFE v1.0.0 – Implement into operations a new process called the Africa RFC (Rainfall Estimator) for International Desk monitoring activities. Was to be implemented on March 21 at 1600Z; implementation began on March 30 due to personnel being unavailable to implement. This was further postponed due to

issues in having output synced to the correct location. This RFC will be resubmitted once all issues have been resolved.

The following NCO RFCs to be implemented the week of April 18, 2016 may affect CPC:

RFC #1848 - Limit the use of cron on operational CPC CF systems to operational accounts only. CPC has requested this to prevent jobs from being set up to run for test accounts on operational systems. Was to be implemented on April 13 at 1400Z; postponed due to other work and should be implemented sometime the week of April 18.

RFC #1861 – WCOSS – Three new utilities will be installed in production to assist in managing and running across 3 different storage systems/architectures (Phase 1, Phase 2, and the Crays). Script 'compath.py' is used to discover the current absolute path of a given COM directory. Script 'getsystem.pl' is used to quickly discover which WCOSS system a user is on. Script 'mail.py' is used to notify production staff of nonfatal issues (in production jobs) from any WCOSS node. To be implemented on April 19 at 1330Z.

RFC #1864 – WCOSS – Work will be done on the Crays to add 2 new service blades containing 2 nodes each for DVS/GPFS services. There will be an 8 hour outage April 20 on the development Cray (Surge) to start this work followed by a 3 hour outage on April 26 to continue the work on the development Cray (Surge). The same work will be done on Luna after the next production switch on May 11. This work should be completed by May 31.

The following NCO RFCs are in progress and may affect CPC:

RFC #1756 - NetCDF4-Python v4-1.2.1 - IBM will install the Python NetCDF4 software on Luna and Surge in /gpfs/hps/usrx/local/prod. This software reads and writes NetCDF files. Implementation began on March 7 at 1600Z; was to be completed by March 21 but IBM has found they need to install HDF5 and NetCDF first on the Crays in order to properly install this software, so the new completion date for this RFC is April 20.

Ocean Prediction Center

The following accelerated items were implemented this past week:

None

The following will be implemented the week of April 18, 2016:

RFC #626 – check_crewss.pl v2016.04.18 – Fix a logic bug in script 'check_crewss.pl' to properly check for the existence of the 18Z quality control (CREWSS) data. Prevent false alarms. To be implemented on April 18 at 1130Z.

RFC #627 – Puget_NCOM.csh v2016.04.18, LongIsland_NCOM.csh v2016.04.18 - Update SST and salinity loops for the Vibrio Puget Sound and Long Island Sound web pages to include missing images for time steps between 72 and 96 hours. The 3 hourly time steps will be added to the processing loop. To be implemented on April 18 at 1330Z.

The following RFCs are in progress:

None

The following NCO RFCs to be implemented the week of April 18, 2016 may affect OPC:

RFC #1861 – WCOSS – Three new utilities will be installed in production to assist in managing and running across 3 different storage systems/architectures (Phase 1, Phase 2, and the Crays). Script 'compath.py' is used to discover the current absolute path of a given COM directory. Script 'getsystem.pl' is used to quickly discover which WCOSS system a user is on. Script 'mail.py' is used to notify production staff of nonfatal issues (in production jobs) from any WCOSS node. To be implemented on April 19 at 1330Z.

RFC #1864 – WCOSS – Work will be done on the Crays to add 2 new service blades containing 2 nodes each for DVS/GPFS services. There will be an 8 hour outage April 20 on the development Cray (Surge) to start this work followed by a 3 hour outage on April 26 to continue the work on the development Cray (Surge). The same work will be done on Luna after the next production switch on May 11. This work should be completed by May 31.

The following NCO RFCs are in progress and may affect OPC:

None

The following NCO RFCs, which may affect OPC, were approved with an implementation date TBD:

RFC #1357 – RTOFS global v1.1.0 – Major upgrade of the Global RTOFS model. See the TIN at: <http://www.nws.noaa.gov/os/notification/tin15-36global-rtofsaaa.htm> for details. This was advertised as having an October 6 implementation date but this implementation is being postponed due to a delay in the Navy's HYCOM model upgrade. Once the HYCOM upgrade is implemented, the Global RTOFS will be scheduled for implementation. The Navy hopes to upgrade HYCOM in FY16Q3. Notification will be given in advance so users may prepare for any changes which may affect them. This upgrade of the Global RTOFS was approved by the NCEP Director.

Weather Prediction Center

The following accelerated items were implemented this past week:

None

The following will be implemented the week of April 18, 2016:

None

The following RFCs are in progress:

None

The following NCO RFCs to be implemented the week of April 18, 2016 may affect WPC:

None

The following NCO RFCs are in progress and may affect WPC:

None

Please note that security-related RFCs are never listed in the RFC memo.

---- OPERATIONAL ANNOUNCEMENTS ----

1. The CPC/OPC/WPC Configuration Management documents are available at <https://sites.google.com/a/noaa.gov/nws-ncep-nco-cm/>.

Please review these documents if you have questions prior to submitting changes for CPC/OPC/WPC configurable items.

2. Users who wish to view their network utilization via the Scrutinizer appliance may request access from NCO/IWSB. Please send an account request to the NCWCP Helpdesk at NCWCP.helpdesk@noaa.gov.